Fig. 1

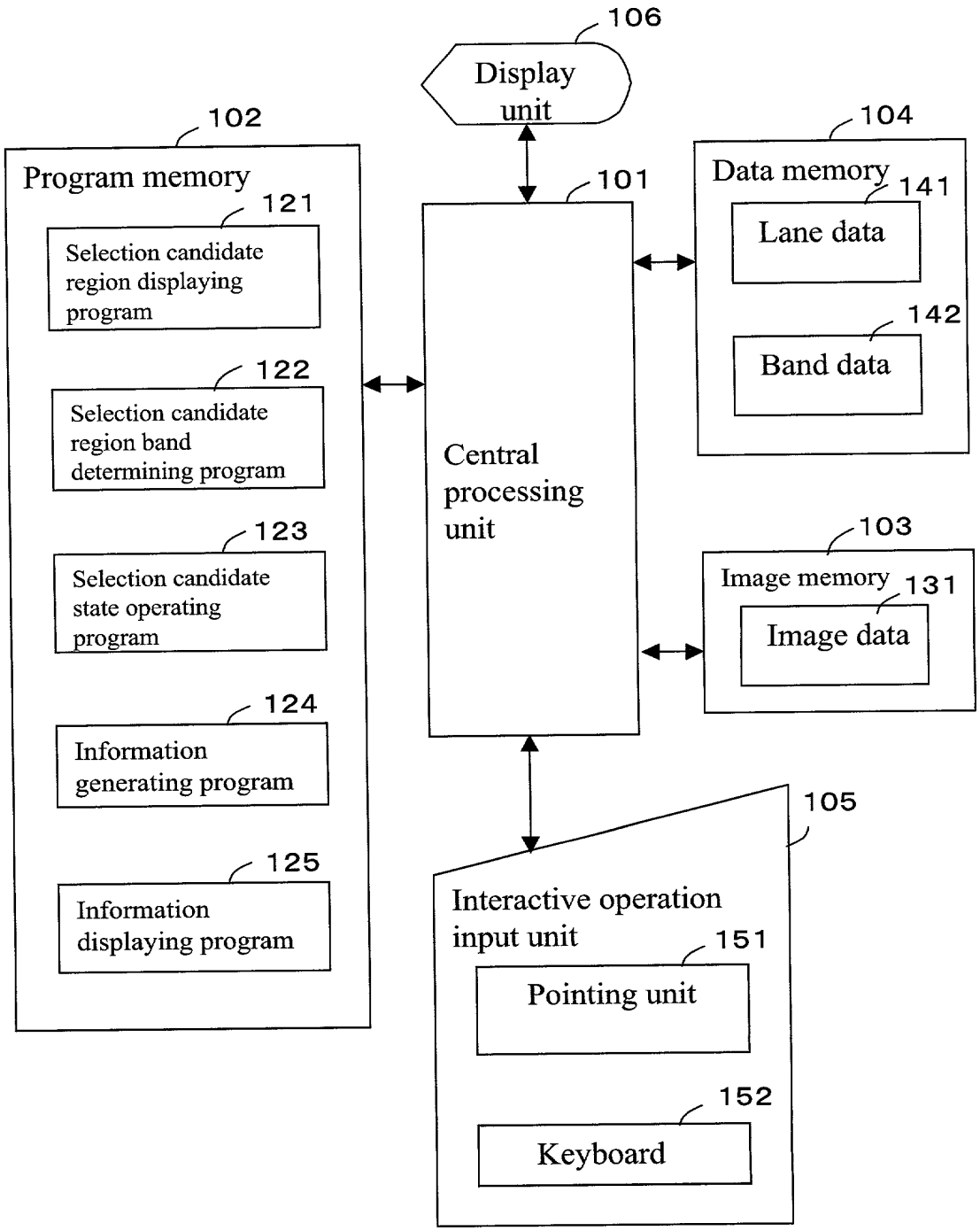

106
Display unit
102
Program memory
121
Selection candidate region displaying program
122
Selection candidate region band determining program
123
Selection candidate state operating program
124
Information generating program
125
Information displaying program
101
Central processing unit
104
Data memory
141
Lane data
142
Band data
103
Image memory
131
Image data
105
Interactive operation input unit
151
Pointing unit
152
Keyboard

Fig. 2

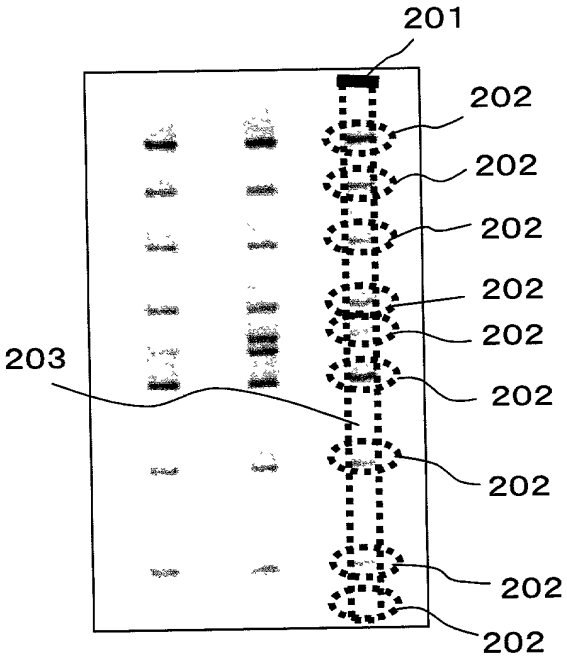


Fig. 3

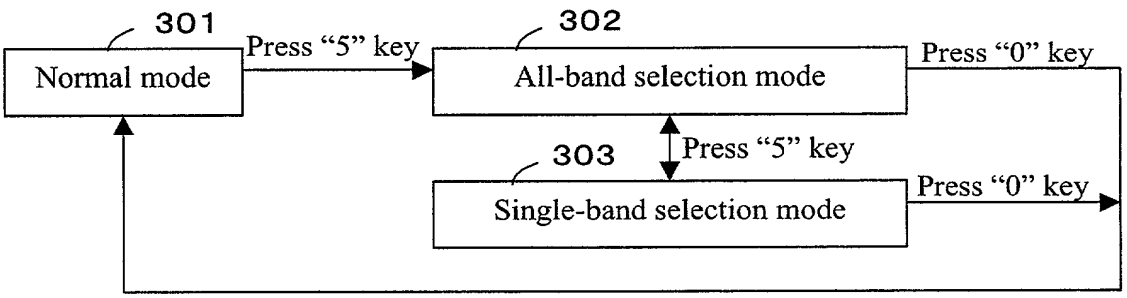

301
Normal mode
Press "5" key
302
All-band selection mode
Press "0" key
Press "5" key
303
Single-band selection mode
Press "0" key

Fig. 4

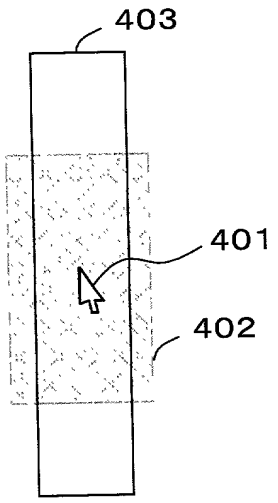


Fig. 5

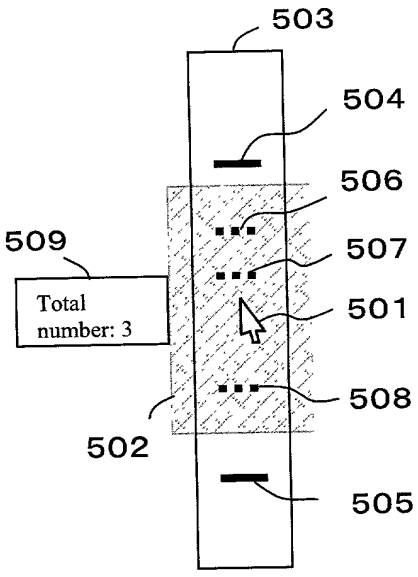


Fig. 6

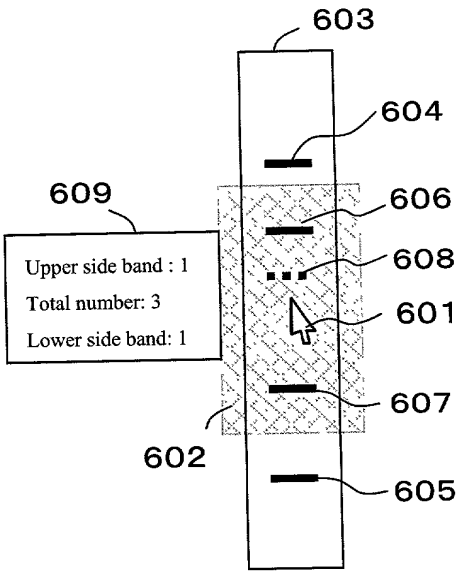


Fig. 7

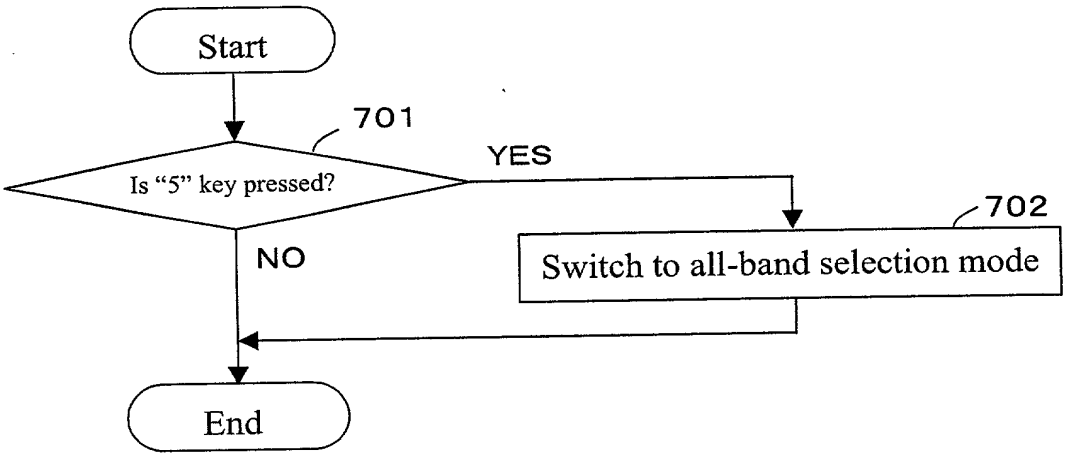

Start
701
Is "5" key pressed?
YES
NO
702
Switch to all-band selection mode
End

Fig. 8

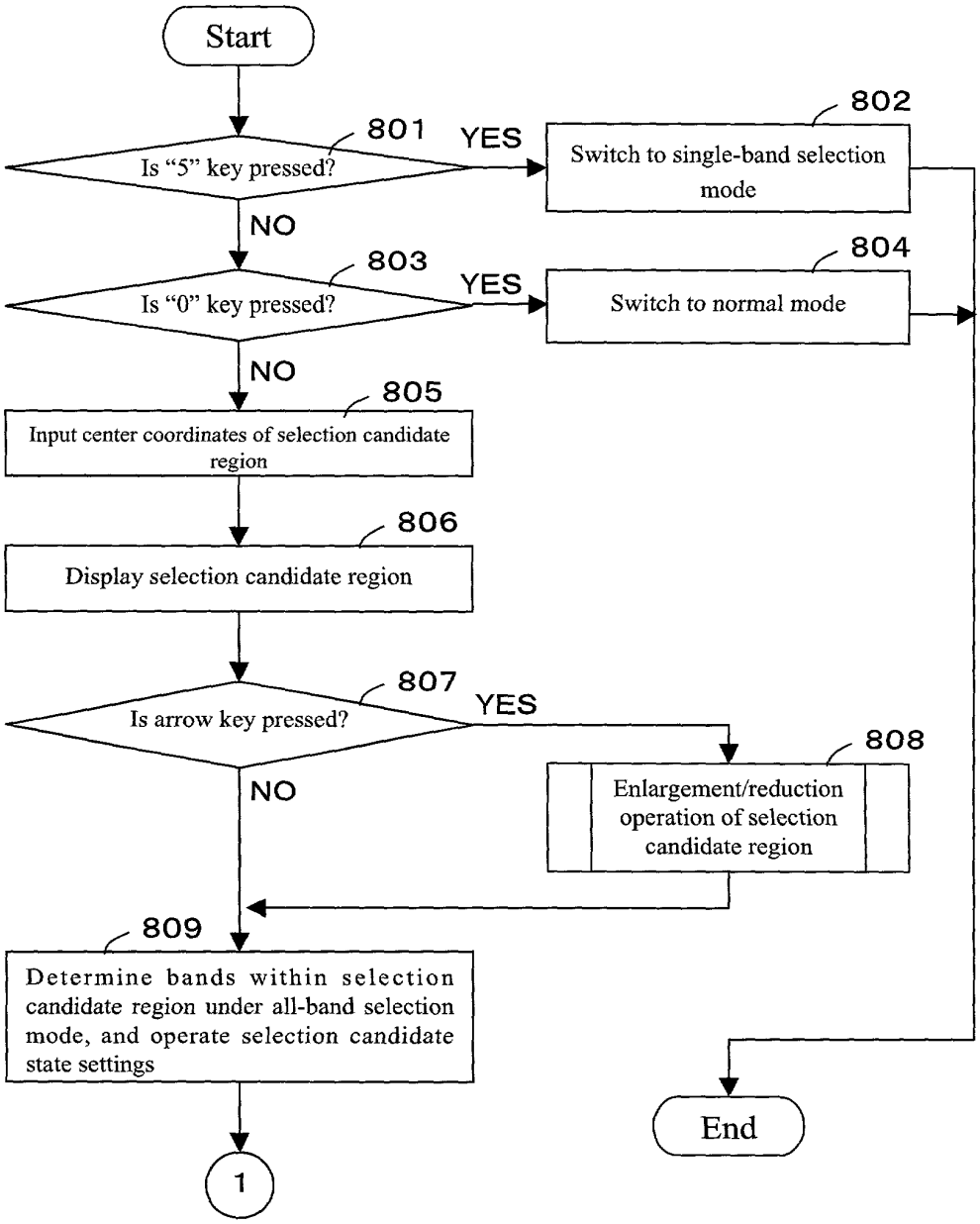

Start
801
Is "5" key pressed?
YES
802
Switch to single-band selection mode
NO
803
Is "0" key pressed?
YES
804
Switch to normal mode
NO
805
Input center coordinates of selection candidate region
806
Display selection candidate region
807
Is arrow key pressed?
YES
808
Enlargement/reduction operation of selection candidate region
NO
809
Determine bands within selection candidate region under all-band selection mode, and operate selection candidate state settings
1
End

Fig. 9

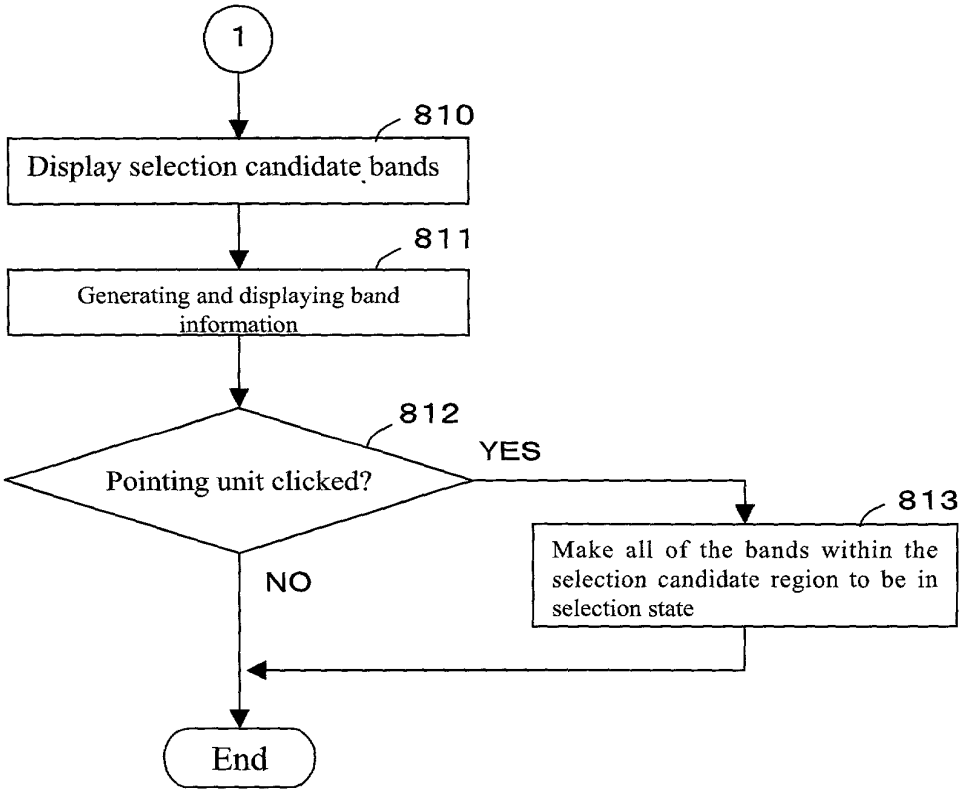


Fig. 10

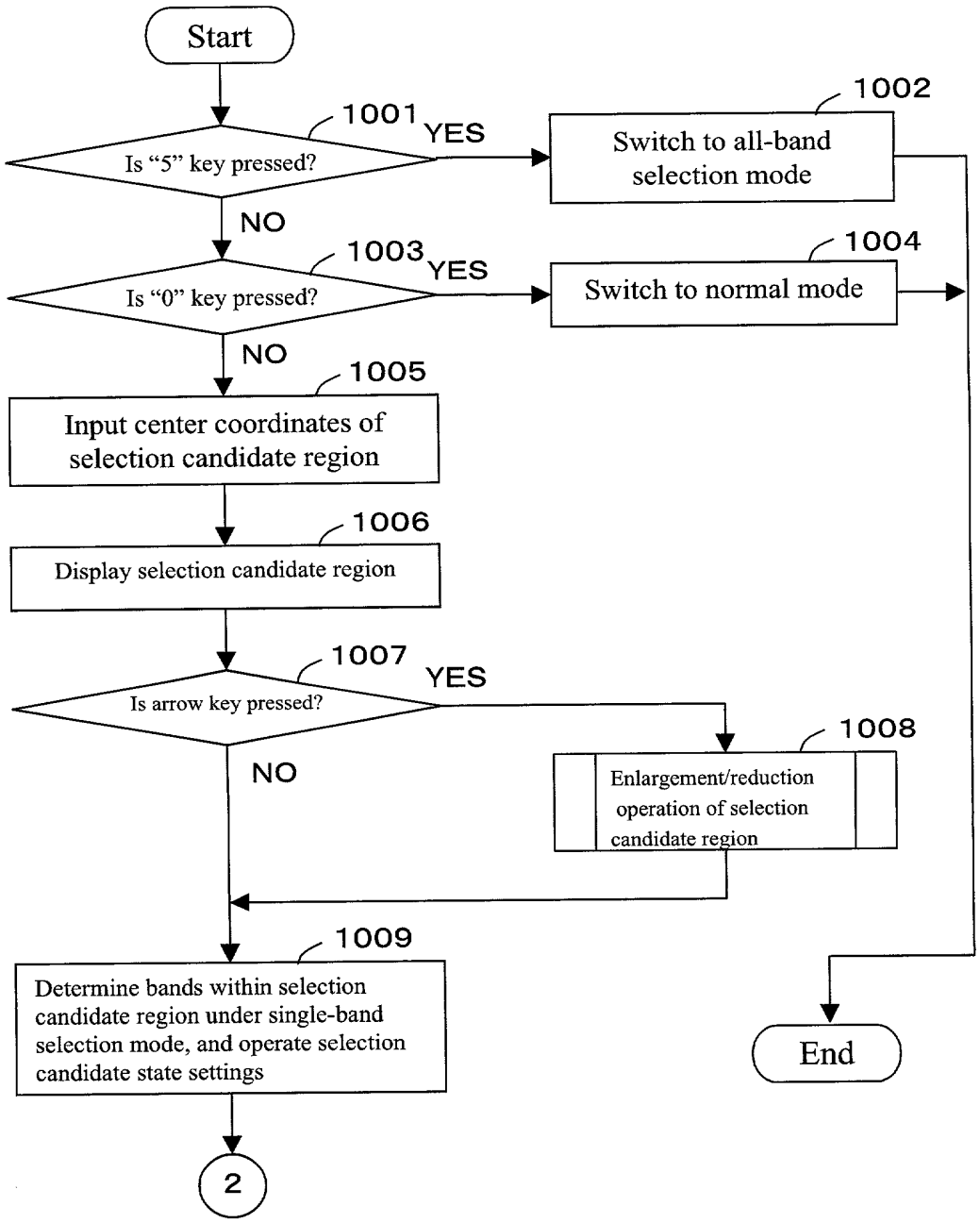

Start
1001
Is "5" key pressed?
YES
1002
Switch to all-band selection mode
NO
1003
Is "0" key pressed?
YES
1004
Switch to normal mode
NO
1005
Input center coordinates of selection candidate region
1006
Display selection candidate region
1007
Is arrow key pressed?
YES
1008
Enlargement/reduction operation of selection candidate region
NO
1009
Determine bands within selection candidate region under single-band selection mode, and operate selection candidate state settings
2
End

Fig. 11

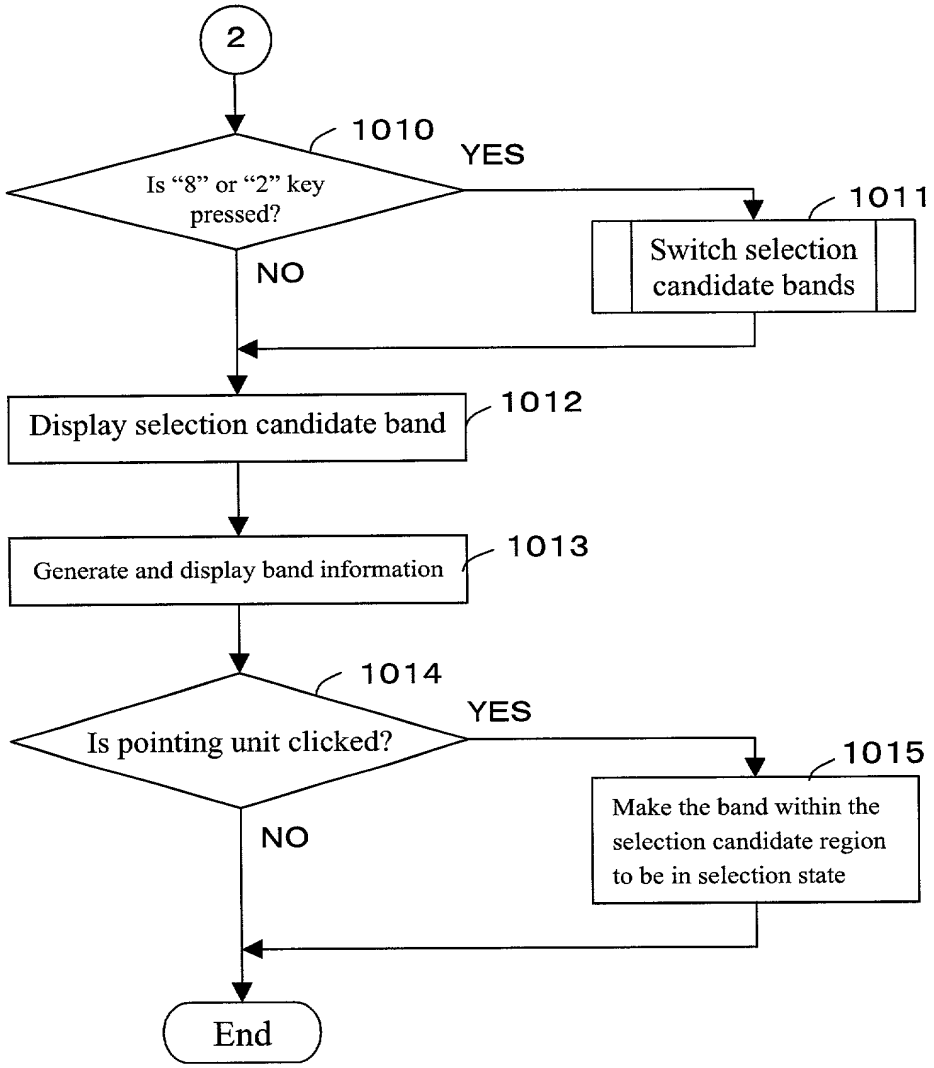
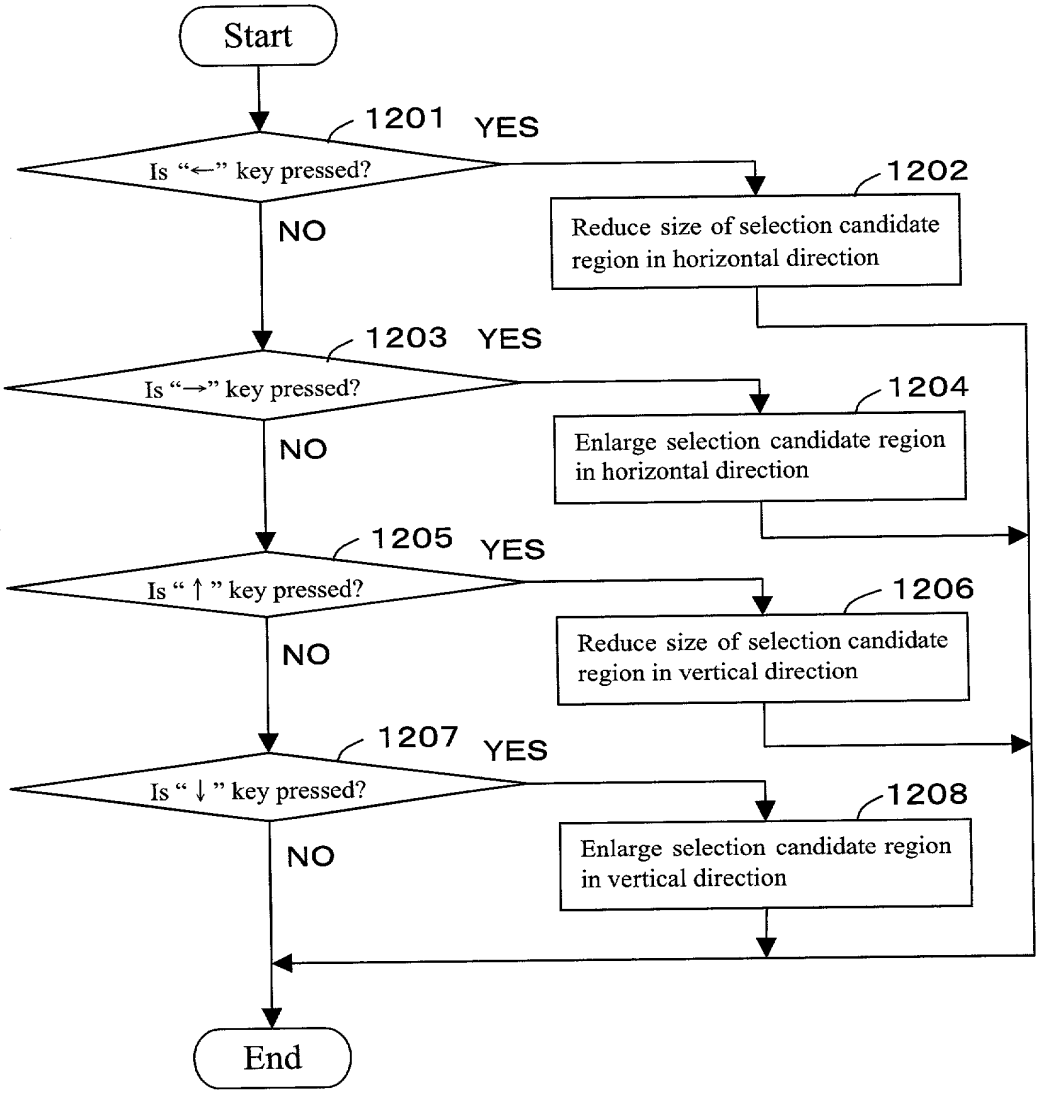

2
1010
Is "8" or "2" key pressed?
YES
NO
1011
Switch selection candidate bands
Display selection candidate band
1012
Generate and display band information
1013
1014
Is pointing unit clicked?
YES
NO
1015
Make the band within the selection candidate region to be in selection state
End

Fig. 12


Start
1201
YES
Is "←" key pressed?
NO
1202
Reduce size of selection candidate region in horizontal direction
1203
YES
Is "→" key pressed?
NO
1204
Enlarge selection candidate region in horizontal direction
1205
YES
Is "↑" key pressed?
NO
1206
Reduce size of selection candidate region in vertical direction
1207
YES
Is "↓" key pressed?
NO
1208
Enlarge selection candidate region in vertical direction
End

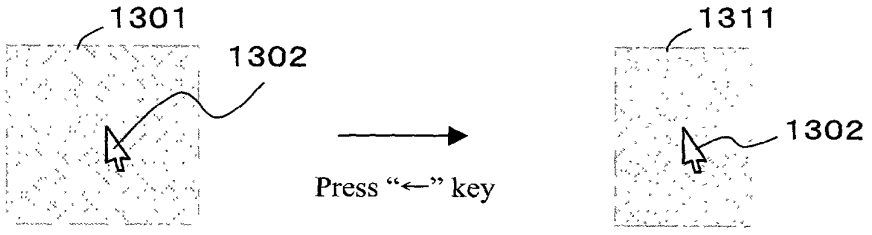


Fig. 13A

Fig. 13B

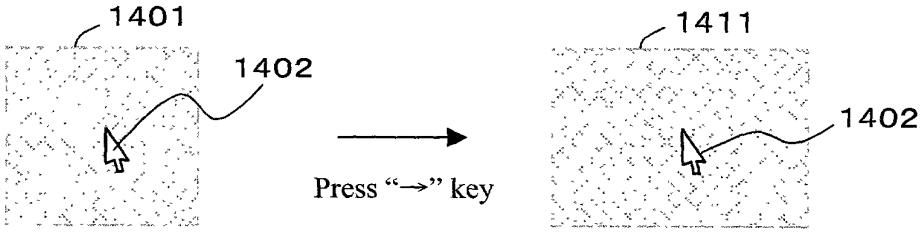


Fig. 14A

Fig. 14B

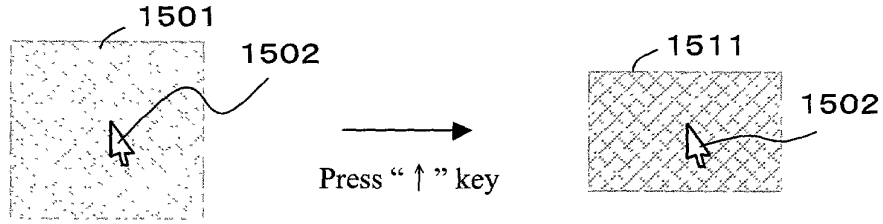


Fig. 15A

Fig. 15B

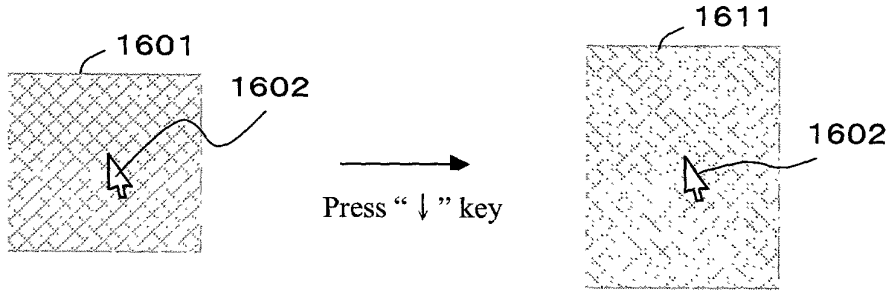


Fig. 16A

Fig. 16B

Fig. 17

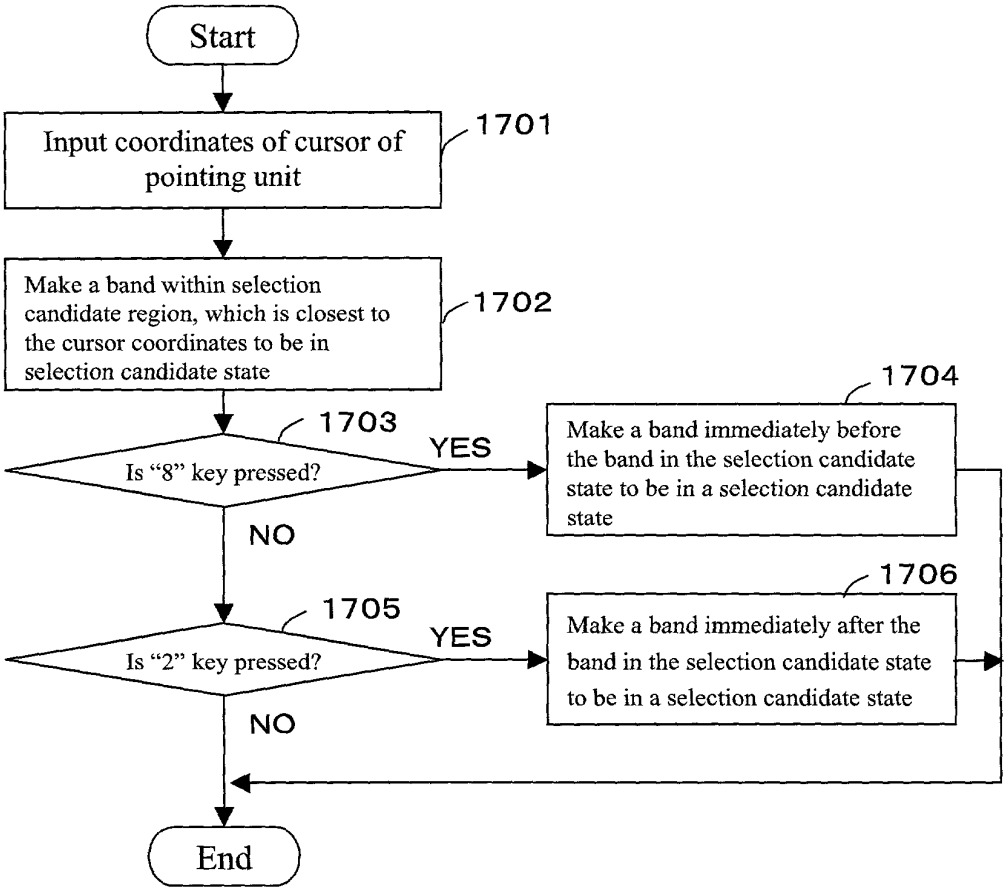
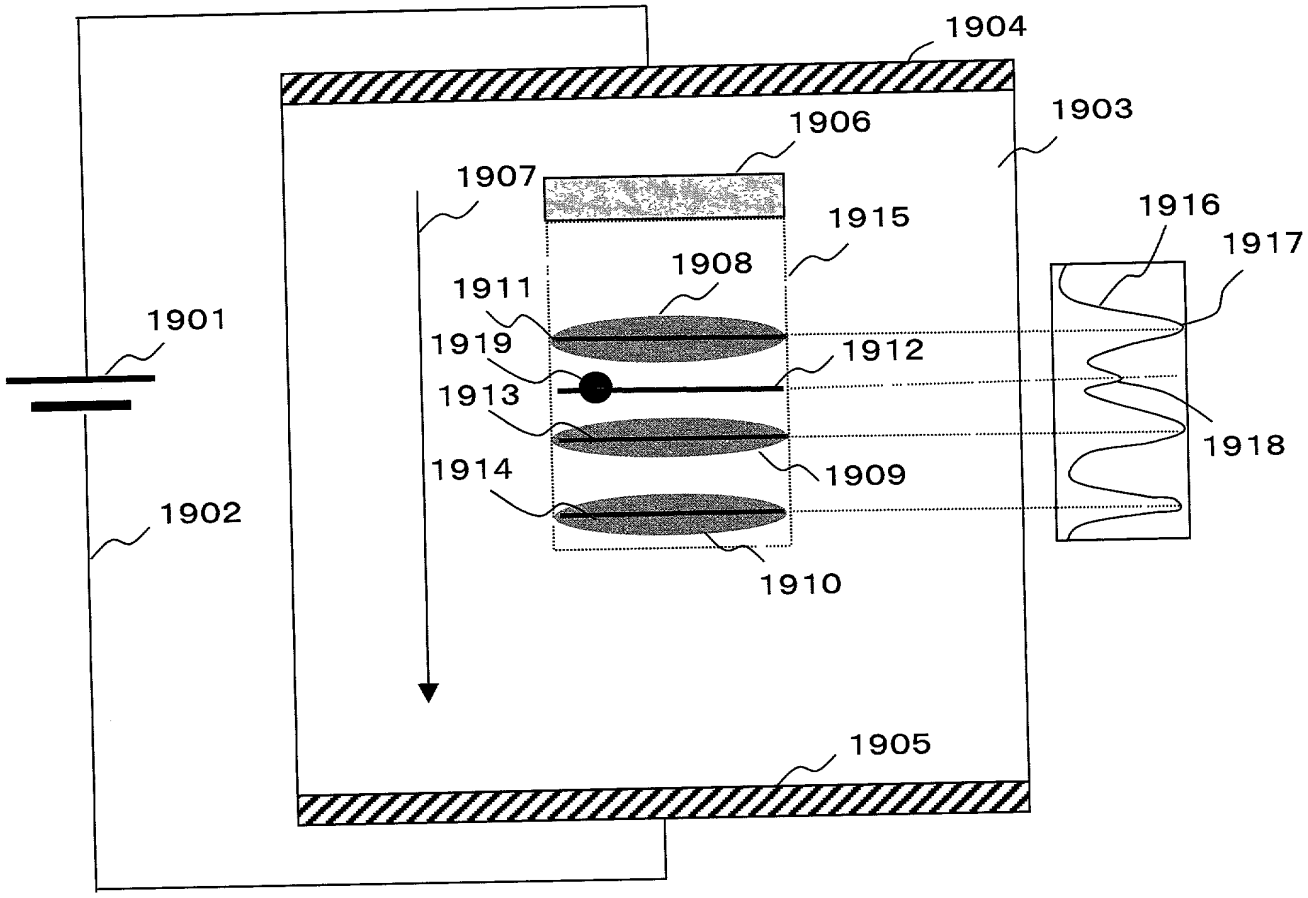

Start
Input coordinates of cursor of pointing unit
1701
Make a band within selection candidate region, which is closest to the cursor coordinates to be in selection candidate state
1702
1703
Is "8" key pressed?
YES
1704
Make a band immediately before the band in the selection candidate state to be in a selection candidate state
NO
1705
Is "2" key pressed?
YES
1706
Make a band immediately after the band in the selection candidate state to be in a selection candidate state
NO
End

Fig. 18

Structure of data memory

Number of lanes	N	
Lane 1 data	Center coordinates (Y1U, X1S) of the upper end of Lane 1	
	Width (W1S) of upper end of Lane 1	
	Center coordinates (Y1E, X1E) of the lower end of Lane 1	
	Width (W1E) of the lower end of Lane 1	
	Number of bands (M1) in Lane 1	
	Band data of Lane 1	Relative coordinates (D1-1) of Band 1 with respect to the upper end of Lane 1
		Relative coordinates (D1-2) of Band 2 with respect to the upper end of Lane 1
		:
		Relative coordinates (D1-M1) of Band M1 with respect to the upper end of Lane 1
Lane 2 data		
:		
Lane N data		

Fig. 19


1904
1903
1906
1907
1915
1916
1917
1908
1911
1901
1919
1912
1913
1918
1914
1909
1902
1910
1905